

**c. Amendments to Claims**

1. (Original) A apparatus, comprising:  
a solid that comprises an crosslinked collection of amphiphilic  
5 organosilicate precursors; and  
wherein the amphiphilic organosilicate precursors form a matrix with an  
array of micro-structures dispersed in the matrix.
2. (Presently amended) The apparatus of claim ~~40~~1, wherein the micro-  
10 structures are voids or pores in the matrix.
3. (Presently amended) The apparatus of claim ~~44~~2, wherein the voids or  
pores are hydrophilic and portions of the matrix not adjacent to the voids or  
pores are hydrophobic.  
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4. (Presently amended) The apparatus of claim ~~44~~2, wherein the solid is  
non-wettable by water.
5. (Presently amended) The apparatus of claim ~~44~~2, further comprising:  
20 a planar optical waveguide comprising an optical core layer and the solid;  
and  
wherein the solid forms an optical cladding layer for the optical core layer.